
1. Introduction

GDS Delivery Version: **D1.0** Initial Delivery Redelivery ICA #: 10337

Spacecraft: MGS M98 Orbiter M98 Lander Stardust Other [_____]

Type: Block Updates ** Utilities Command Dictionary
 Modeling Updates Other [_____]

This is the First Delivery for NFS mounting:

Should be owned by msopcm /msop/**seq** (read & execute)

Should be owned by nipcec /msop/**seq_input** (read/write & execute)

Should be owned by nipcec /msop/**seq_config** (read/write & execute)

Notice: Times Below were decided at the Change Board.

Installation Window: _____

Best Times to Install: _____

Freeze Times: _____

MCR's

342 - M98/SDU command limit check

346 - Update SEQGEN/SEQ_REVIEW Scripts for Carrier-Only Ops

347 - Update SEQGEN/SEQ_REVIEW Scripts for Antenna Selection

353 - Modify EC Process

354- TES Flight Rule Update (FR 1303-B-TES)

364 - Alter ER_MAP block to work properly with MP/AEM scripts

373 - Enable Flight Utilization of Mapping Symout

377 - GDS D1.0 DELIVERY

**** Block Updates**

SDU - stop_comm.blk & comm.blk

2. Delivery Location: **mgcm1:/staging/MSOP/seq** **doc/** (directory) **tarfiles/** (directory)

3. SEQ Workstations - Installation Instructions: N/A (See Attached - Directory Listing)

a) Special Alerts - Before Install

Notify S/W Dev: J. Morris (4-1069) S. Wissler (4-0153) & SIE on Duty

b) Install - Tar file: **D1.0.0-SEQ-000-SEQ** tar in directory: /msop/seq/

On: PST workstations - **mgseq2** - 1st

- 1) copy the tarfile: **D1.0.0-SEQ-000-SEQ.tar** - to subdirectory: /msop
- 2) tar -xvf **D1.0.0-SEQ-000-SEQ.tar**
- 3) rm **D1.0.0-SEQ-000-SEQ.tar**

c) Notify: J. Morris (4-1069) S. Wissler (4-0153) Linda Lee (3-9568), when Install is completed.

- 1) Software Dev will configure following directories in **/msop/seq_data** to NFS mounted space: **/msop/seq_config**

distiller/	engineering/
lander_power_model/	sc_tables/
seq_review_scripts/	seqgen_scripts/
slinc_config/	tools/

- Check - clean-out /msop/seq_config/engineering /msop/seq_config/tools
 verify software installed correctly
 run test cases

- 2) Software Dev will Notify: SEQ Team Chief - when configuration is completed.

- 3) SIE on Duty SEQ Team Chief & Software Development will:

Stop ASP – on **mgseq5**

- 4) From workstation (Reid Thomas has selected) _____ Software Dev will copy following directories from **/msop/seq_data/** to NFS mounted space: **/msop/seq_input/**

alloc/ ltf/ optg/ sclk/ spice/ vue/

- 5) From workstation (Reid Thomas has selected) _____ Software Dev will copy following directories from **/msop/seq_data/** to NFS mounted space: **/msop/seq_config**

/auto_seq /dsn_config

- 6) Software will notify SEQ Team Chief, after files are copied.

- 7) SEQ Team Chief & Software Development, will
 Restart ASP on **mgseq2**
 Notify - ACE, so Operations may continue Notify - CM
-

Special - User's - Alerts - After Install:

- Log off workstation - then Log back on (files need to be re-configured)
 Incon's MUST be updated

Make following changes to incons:

1. Remove model element: MarsTime - from – All but – MPL
2. Change model ATTRIBUTE: telecom - COHERENCY - to → NONCOHERENCY (mco, mpl)
3. Change model ATTRIBUTE: aacs - IMU_POWER_OFF_ON - to → IMU_POWER
4. Change model ATTRIBUTE: aacs - AD_STATE_SELECT_AD_STATE - to → AD_STATE

- Previous symout can be used Default - symout MUST be used _____
-

Comments:

Old .env files will not work with new configuration, use Steve Wissler's awk script:
`/msop/seq_config/tools/cnvrt_env`

4. SCT Workstations - Installation Instructions: (See Attached - Directory Listing)

a) Special Alerts - Before Install

- 1) copy the tarfile: **D1.0.0-SEQ-000-SEQ.tar** - to subdirectory: /msop
- 2) tar -xvf **D1.0.0-SEQ-000-SEQ.tar**
- 3) rm **D1.0.0-SEQ-000-SEQ.tar**

Comments:

Note: Do Not copy /msop/seq - from any workstations - Use tar file only for NFS mount

b) Install Tar file: **D1.0.0-SEQ-000-SEQ.tar** in /msop/seq

On: LMA SCT SERVER LMA STL Workstations SD MSA

c) Notify: J. Morris (4-1069) S. Wissler (4-0153) Linda Lee (3-9568),
when Install is completed.

- 1) Software Dev will configure following directories in **/msop/seq_data** to
NFS mounted space: **/msop/seq_config/**

/distiller	/engineering
/lander_power_model	/sc_tables
/seq_review_scripts	/seqgen_scripts
/slinc_config	/tools

- 2) Software Dev will move following directories from **/msop/seq_data** to: NFS mounted
space **/msop/seq_input**

alloc/ ltf/ optg/ sclk/ spice/ vue/

- Check - clean-out /engineering & /tools if needed
- verify software installed correctly
- run test cases

- 2) Software Dev will Notify: ACE CM - when configuration is completed.

Special - User's - Alerts - After Install:

Log off workstation - then Log back on (files need to be re-configured)

Comments:

Old .env files will not work with new configuration, use Steve Wissler's awk script: /msop/seq_config/tools/cnvrt_env

5.0 SOPC/ER Workstations - Installation Instructions: (See Attached - Directory Listing)

a) Special Alerts - Before Install

Delete /msop/seq (Full Delivery)

b) Install - PSS software for SOPC/ER in directory: /msop/seq/

- Tar file: **D1.0.0-SEQ-000-SOPC.tar** - On:

MGS - SOPC Workstations MSOP - SOPC Workstations M98 - SOPC Workstations
These w/s won't be configured until June

- 1) copy the tarfile: **D1.0.0-SEQ-000 -SOPC.tar** to /msop
 - 2) tar -xvf **D1.0.0-SEQ-000 -SOPC.tar**
 - 3) rm **D1.0.0-SEQ-000 -SOPC.tar**
-

c) Notify: J. Morris (4-1069) S. Wissler (4-0153) Linda Lee (3-9568), when Install is completed.

- 1) Software Dev will configure following directories in **/msop/seq_data/** to NFS mouted space: **/msop/seq_config/**

lander_power_model/
seq_review_scripts/
tools/

sc_tables/
seqgen_scripts/

- 2) Software Dev will move flollowing directories from **/msop/seq_data** to: NFS mouted space **/msop/seq_input**

alloc/ ltf/ optg/ sclk/ spice/ vue/

Check - clean-out /engineering if needed
 verify software installed correctly
 run test cases

- 3) Software Dev will Notify: J. Glance (3-0630) CM - when configuration is completed.
-

Special - User's - Alerts - After Install -

Log off workstation - then Log back on (files need to be re-configured)

Comments:

Old .env files will not work with new configuration, use Steve Wissler's awk script:
/msop/seq_config/tools/cnvrtn_env

This form will be placed on our homepage, in the following URL http://mgsw3.jpl.nasa.gov/seq/seq_dev/

Directory Structure Changes

Subdirectory /msop/seq_data - is split up

seq_data

all output files

seq_input (NFS – mounted - JPL & LMA only)

alloc/
lrf/
optg/
sclk/
spice/
vue/

seq_config (NFS – mounted - JPL & LMA only)

auto_seq/
distiller/
dsn_config/
engineering/
lander_power_model/
sc_tables/
seq_review_scripts/
seqgen_scripts/
slinc_config
tools/

Delivery Notes

MGS

- 1) Implementation of MCR 354, "TES Flight Rule Update". Changes were made to the spacecraft model file (mgs.payload.smf) and the TES block (mgs.payload.satf).
- 2) Removal of annoying SSR (mgs.ssr.smf) and TES (1302-B-TES) diagnostics messages from the PEFoutput (the messages are currently being ignored by operations personnel).

SDU

- 1) Delivery of an updated spacecraft model file (Stardust.4.0.1d.smf) to include additional flight rule and antenna modeling (refer to A. McMechen, "SDU Antenna Selection", Jan 26, 1999, K. Koonce, "New Stardust Flight Rules" E-Mail).
All SEQGEN assigned flight rules, except for 0702-B-SCI, have been implemented and included in this delivery.
- 2) Delivery of an updated flight/mission rules file (Stardust.A5.fmrf).
- 3) Delivery of an updated spacecraft activity file (Stardust.A35.satf) due to the antenna selection request. Two blocks were changed due to the antenna selection request (stop_comm and comm blocks).
- 4) Re-delivery of the msop.soe.smf file due to additional telemetry format descriptions (refer to A. McMechen, "Updated Telemetry Format Documentation", Feb 23, 1999 and "E-Mail Typo", Feb 25, 1999 E-Mails).

Test Report

Tests Linda ran to Validate the delivery:

MGS

- 1) Re-Ran an old TES block test case and compared the commands in the PEF. Differences in the PEF were due to the block changes.
- 1) Re-ran an old TES FR 1303-B-TES modeling test case and compared the diagnostic messages in the new PEF and the old PEF test case. The same messages appeared in the new test PEF. Also verified the update to the flight rule model worked.
- 2) Re-ran sequence mf001b to verify SSR and TES diagnostics were removed.

SDU

- 1) All Stardust block test cases have been run. The sequence products have been quickly reviewed (from compares of the PEFs) and there were no differences except for the changes made in the stop_comm and comm.blks for antenna selection.
- 2) Re-ran all the flight rule tests and was able to re-create the same errors from unit testing.

Sequence Development Tests - ran on: mtbseq1 - Judy

Script **run_local_SIM_rtc_ASP_tests** (Ran on **mtbseq1** – runs ASP locally)

Options Selected	
	1 - file_load tests (ic - ifl) 8-tests
	2 - SCT - ic & ec - tests - 13-tests - sdu-mgs-mco-mpl
	3 - MAG - nipc tests - 2-tests - mgs only
X	4- All tests

Script: **run_testbed_SIM_rtc_ASP_tests** (Ran from **mdevttacs** - mailed frf to mtbseq1)

Options Selected	
	1 - file_load tests (ic - ifl) 8-tests
	2 - SCT - ic & ec - tests - 13-tests - sdu-mgs-mco-mpl
	3 - MAG - nipc tests - 2-tests - mgs only
X	4- All tests

Script: **run_FR_tests** (checks out Flight Rules)

Options Selected	
	1 - mpl - flight rules
	2 - mco - flight rules
	3 - mpl & mco - flight rules
	4 - sdu - flight rules
X	5 - All tests

Script: **run_block_tests** (Each block is run through Seqgen))

Options Selected	
	1 - mpl - flight rules
	2 - mco - flight rules
	3 - mpl & mco - flight rules
	4 - sdu - flight rules
X	5 - All tests

Script: **run_SIM_SEQ_gen_command**(A Stored Sequence for each spacecraft)

Options Selected	
	1 - sdu - Cruise Sequence - sc001a
	2 - mpl - Cruise Sequence - pc001c
	3 - mco - Cruise Sequence - cc001c
	4 - mgs - Mapping Sequence - mf001d
X	5 - All tests

Directory Listing: D1.0.0-SEQ-000-SEQ.tar

```
555 Dec 21 16:38 1998 seq/aaf/constraints.aaf
70128 Mar 12 18:37 1999 seq/aaf/m98.3-12-99.aaf
3095 Sep 30 16:30 1997 seq/aaf/optg.aaf
10786 Jan 20 18:07 1998 seq/aaf/vue.aaf

679 Mar 12 21:37 1999 seq/bin/AcrobatDistiller
202 Feb 11 00:35 1999 seq/bin/Acroexch
5641 Mar 8 23:40 1999 seq/bin/AutoSeqStatus
5735 Nov 13 19:26 1998 seq/bin/AutoSeqStatus.save
411 Mar 8 20:58 1999 seq/bin/SCE_to_ERT
22464 Dec 4 01:02 1998 seq/bin/SeqgenV23_2
11867 Jan 26 23:35 1999 seq/bin/Seq_review
5962 Dec 2 22:35 1998 seq/bin/StTrkModelerV4_2
410 Mar 8 20:59 1999 seq/bin/TRM_to_SCE
220 Mar 5 18:14 1999 seq/bin/adapt.log
1230 Feb 25 19:13 1998 seq/bin/add_activity
1087 Apr 28 16:00 1998 seq/bin/add_command
831 Jul 31 22:12 1998 seq/bin/add_list_to_FIS
3157 Mar 10 19:57 1999 seq/bin/add_nipcec_to_pdb
847 May 2 15:04 1997 seq/bin/add_request
342 May 12 14:00 1997 seq/bin/add_to_queue_log
273 Mar 8 20:59 1999 seq/bin/auto_sequence
1490 May 9 22:23 1997 seq/bin/bit_rate_cvf_gen
7340 Mar 8 21:00 1999 seq/bin/check_file_sfdu
2289 Sep 30 15:56 1998 seq/bin/check_sasf
1912 Feb 16 23:07 1999 seq/bin/chk_cmd_limit
799 Mar 8 21:01 1999 seq/bin/clean_up
594 Mar 8 21:01 1999 seq/bin/constrain_time
422 Jul 28 14:22 1997 seq/bin/correct_conditions_file
515 May 19 21:57 1998 seq/bin/correct_conditions_for_sasf
703 Aug 18 15:58 1998 seq/bin/correct_transmitter_min_dur
721 Aug 18 15:51 1998 seq/bin/correct_transmitter_min_dur_env.awk
1070 Aug 25 14:43 1998 seq/bin/create_keword_sasf
356 May 21 18:36 1998 seq/bin/create_sasf
360 Aug 25 14:24 1998 seq/bin/create_sasf_sct
25 Feb 13 20:50 1997 seq/bin/crush
169 Apr 30 22:50 1997 seq/bin/curdate
147 Apr 30 22:51 1997 seq/bin/delete_mail
1638 Mar 10 20:33 1999 seq/bin/dom_interface
305 Aug 22 14:01 1997 seq/bin/dsn.config.awk
13878 Mar 8 21:04 1999 seq/bin/env_gen
741 Mar 8 21:04 1999 seq/bin/env_gen_update.awk
68 Jan 19 16:56 1996 seq/bin/file_exists
16071 Mar 8 21:05 1999 seq/bin/file_load
2648 Feb 12 17:03 1999 seq/bin/finish_dkf
5772 Mar 8 21:07 1999 seq/bin/finish_soe
3101 Mar 12 21:00 1999 seq/bin/finish_soe_dkf
2119 Aug 28 01:07 1998 seq/bin/fix_ps_soe.pl
1591 Sep 30 00:13 1998 seq/bin/format_dkf
1629 Jul 21 16:12 1998 seq/bin/format_dkf.awk
4803 Feb 12 17:04 1999 seq/bin/ftp_2homepage
11943 Mar 12 21:00 1999 seq/bin/ftp_dsn
1470 Dec 3 18:59 1998 seq/bin/gen_blank_apf
14225 Mar 8 21:10 1999 seq/bin/gen_command
337 Oct 14 16:04 1998 seq/bin/gen_command.script
1513 Dec 28 14:59 1998 seq/bin/generate_and_update_sasf
2430 Mar 8 21:11 1999 seq/bin/generate_mail_scanner
1424 Aug 23 20:21 1998 seq/bin/gen_soe_dkf
1319 Sep 30 00:15 1998 seq/bin/gen_txr_trigger
```

Directory Listing: D1.0.0-SEQ-000-SEQ.tar

```
2717 Jul 24 14:57 1998 seq/bin/gen_txr_trigger.awk
 134 Mar  1 17:39 1999 seq/bin/get_0_sclk
 600 Jan  5 20:46 1999 seq/bin/get_aero_symin.awk
1283 Sep 30 00:18 1998 seq/bin/get_aero_symin_file
2440 Feb 17 17:57 1999 seq/bin/get_all_files
 125 Mar 10 19:05 1999 seq/bin/get_arg
 175 Mar 10 19:08 1999 seq/bin/get_arg.awk
 161 Mar  8 21:11 1999 seq/bin/get_bin
5104 Mar  8 21:12 1999 seq/bin/get_cdb_file
1611 Sep 30 00:47 1998 seq/bin/get_cmd_info
 259 Apr 30 22:52 1997 seq/bin/get_dotIdx
2171 Oct 11 05:48 1998 seq/bin/get_file
 265 Oct  1 22:45 1997 seq/bin/get_file_from_pef
 283 May  5 20:28 1997 seq/bin/get_file_from_ssf
2603 Mar 11 17:10 1999 seq/bin/get_files_by_time
1461 Oct  9 20:39 1998 seq/bin/get_files_from_frf
 640 Feb 26 21:15 1999 seq/bin/get_files_from_frf.awk
103 Aug  5 20:03 1998 seq/bin/get_frViolation
643 Aug  5 20:03 1998 seq/bin/get_frViolation.awk
234 Sep  4 20:11 1998 seq/bin/get_input_conditions_file
286 Sep  4 20:08 1998 seq/bin/get_input_conditions_file.awk
110 Oct 27 21:07 1997 seq/bin/get_keyword_value
2592 Mar  8 21:12 1999 seq/bin/get_lighttime
 905 Mar  8 21:13 1999 seq/bin/get_list_from_FIS
 139 Apr 30 22:52 1997 seq/bin/get_missionIdx
 274 Mar  8 21:13 1999 seq/bin/get_nipc_function
1122 Mar  8 21:14 1999 seq/bin/get_optgs
1848 Sep 30 00:51 1998 seq/bin/get_pdb_store_time
2442 Dec 28 14:59 1998 seq/bin/get_sasfs.awk
2848 Mar  8 21:15 1999 seq/bin/get_sc_info
1633 Aug 14 14:46 1998 seq/bin/get_seqtran_info
 397 Dec 29 17:17 1998 seq/bin/get_sfdu_header
 214 Sep  2 14:01 1998 seq/bin/get_sfdu_keyword
 401 Apr 10 21:28 1996 seq/bin/get_state_changes
 71 Jul  9 18:12 1997 seq/bin/get_total_load
260 Feb 12 19:22 1999 seq/bin/get_translated_data.awk
 636 Mar  8 21:15 1999 seq/bin/get_updates
 651 May  8 15:19 1997 seq/bin/get_urate_index
 640 Feb 25 23:23 1999 seq/bin/jobcard_gen
3700 Mar  8 21:16 1999 seq/bin/lander_pass_thru
 643 Oct 10 19:29 1997 seq/bin/lander.plan
 468 Mar  8 21:16 1999 seq/bin/lock
1661 Mar 12 17:40 1999 seq/bin/mco-seq-adapt-setup
9123 Jan 19 16:56 1996 seq/bin/menuRes
 778 Jan 19 16:56 1996 seq/bin/merge-err.keys
 145 Jan 19 16:56 1996 seq/bin/merge_init_gen
1791 Mar 11 15:14 1999 seq/bin/mgs-seq-adapt-setup
1772 Mar 12 17:47 1999 seq/bin/mpf-seq-adapt-setup
2951 Mar 10 21:40 1999 seq/bin/msop-seq-setup
16959 Mar  8 21:18 1999 seq/bin/notify_act
 8549 Dec 18 18:16 1998 seq/bin/notify_act_seq
 543 Jun  6 15:17 1996 seq/bin/notify_act_seq_all
 536 Mar  4 19:34 1999 seq/bin/notify_sie
7407 Mar 12 21:00 1999 seq/bin/notify_soe
 97 Dec 15 15:33 1998 seq/bin/parse_gcmd_reverse
 669 Dec 15 15:37 1998 seq/bin/parse_gcmd_reverse.awk
9123 Aug 26 14:47 1998 seq/bin/pdb_delete
1151 Mar 10 19:55 1999 seq/bin/pdb_interface
8361 Mar 10 19:57 1999 seq/bin/pdb_store
```

Directory Listing: D1.0.0-SEQ-000-SEQ.tar

9343 Mar 8 21:20 1999 seq/bin/pef_display
1493 Aug 27 23:31 1998 seq/bin/print.rsoe
3904 Jul 21 16:44 1998 seq/bin/print.rsoe.awk
327 Mar 8 21:21 1999 seq/bin/process_fns_file
2196 Mar 8 21:21 1999 seq/bin/process_fns_file.awk
155 Feb 17 17:58 1999 seq/bin/process_frf
1948 Mar 8 21:22 1999 seq/bin/process_frf.awk
1488 Mar 8 21:22 1999 seq/bin/process_mail_file
516 Mar 8 21:22 1999 seq/bin/process_radiation.log
30 Mar 11 19:36 1997 seq/bin/pushin
302 May 9 16:34 1997 seq/bin/record_status
235 Jun 30 18:06 1997 seq/bin/remove_req_from_fincon.awk
234 Apr 1 17:13 1998 seq/bin/replace
493 Aug 11 15:32 1997 seq/bin/replace.large
250 Oct 1 15:48 1998 seq/bin/resolve_cdb_file_name
347 Nov 18 17:32 1997 seq/bin/revcompare
3005 Mar 8 21:23 1999 seq/bin/revinit_gen
869 Feb 11 17:23 1999 seq/bin/run.apgen
4042 Sep 9 14:49 1997 seq/bin/run.dsn.config
6702 Mar 10 19:57 1999 seq/bin/run_file_load
4076 Mar 8 21:25 1999 seq/bin/run_fns
529 Mar 8 21:23 1999 seq/bin/run.gcmd_reverse
689 Jun 1 15:07 1998 seq/bin/run.nipcec.merge
5106 Mar 8 21:23 1999 seq/bin/run.nipcec.sequence
551 Mar 25 16:01 1996 seq/bin/run.pef_to_req
265 May 6 16:55 1996 seq/bin/run.printscmf
324 Sep 4 16:39 1997 seq/bin/run.revcompare
327 Apr 30 22:47 1997 seq/bin/run.revtran
142 Apr 30 22:46 1997 seq/bin/run.revtran.nipcec
1113 Apr 30 22:47 1997 seq/bin/run rtc
11453 Mar 8 21:26 1999 seq/bin/run_sasf
437 May 6 16:53 1996 seq/bin/run.seqadapt
1195 May 6 16:53 1996 seq/bin/run.seqgen
755 Jul 21 17:30 1997 seq/bin/run.seqgen.nipcec
5332 Mar 8 21:25 1999 seq/bin/run.seqtran
4095 Feb 25 23:38 1999 seq/bin/run.seqtran.all
3227 Mar 4 16:29 1999 seq/bin/run.seqtran.nipcec
2304 Mar 9 15:33 1999 seq/bin/run.sequence
596 Aug 23 20:19 1998 seq/bin/run_soe
114 Feb 24 21:15 1999 seq/bin/sclk_convert
857 Feb 26 15:51 1999 seq/bin/sclk_convert.awk
1598 Mar 12 17:38 1999 seq/bin/sdu-seq-adapt-setup
8953 Mar 4 16:26 1999 seq/bin/send_frf
3367 Sep 30 00:59 1998 seq/bin/send_ic
398 Jan 19 16:56 1996 seq/bin/send_mail
4755 Mar 8 23:45 1999 seq/bin/send_nipcec
864 Mar 8 21:26 1999 seq/bin/send_rad
874 Mar 4 19:34 1999 seq/bin/send_report
7194 Dec 20 15:31 1996 seq/bin/seqgen-err.keys
864 Mar 8 21:27 1999 seq/bin/seq_id_gen
5228 Mar 8 21:28 1999 seq/bin/seq_translate
6658 Jan 19 17:00 1996 seq/bin/sfocsfd

93020 Jun 12 19:58 1998 seq/bin/sol/add_time
50272 Dec 28 14:58 1998 seq/bin/sol/allCmds2Req
61664 Feb 3 19:36 1999 seq/bin/sol/apgen
07612 Dec 3 22:41 1998 seq/bin/sol/ascii_to_hex
46052 Mar 8 21:38 1999 seq/bin/sol/auto_seq_status
92624 Jul 22 20:30 1997 seq/bin/sol/bsplit

Directory Listing: D1.0.0-SEQ-000-SEQ.tar

95972 Jan 8 22:39 1999 seq/bin/sol/cdbg
55612 May 1 18:29 1997 seq/bin/sol/convert_data_words
69008 Jan 20 23:49 1999 seq/bin/sol/fgen
25 May 9 16:57 1997 seq/bin/sol/findkeys
37568 Jan 29 22:57 1999 seq/bin/sol/gcmd_reverse
33612 Jan 15 21:55 1999 seq/bin/sol/litime
07828 Jun 1 15:07 1998 seq/bin/sol/merge
07336 Sep 12 23:09 1997 seq/bin/sol/mgso2jd
15832 May 1 20:40 1997 seq/bin/sol/mosort
97452 Jun 1 22:42 1998 seq/bin/sol/parse_cdb_file_list
40968 Feb 17 21:23 1999 seq/bin/sol/parse_gcmd_print
46000 Dec 28 14:58 1998 seq/bin/sol/pef_to_req
37284 Jun 27 14:56 1997 seq/bin/sol/printscmf
12252 Nov 18 16:35 1997 seq/bin/sol/revcompare_aux
02344 May 14 15:19 1997 seq/bin/sol/revdiff
50648 May 1 17:48 1997 seq/bin/sol/revtran
53828 Mar 5 18:29 1999 seq/bin/sol/seqgen
32996 Dec 28 18:19 1998 seq/bin/sol/seq_review
64836 Feb 2 19:20 1999 seq/bin/sol/seqtran
93052 Dec 16 18:44 1998 seq/bin/sol/slinc
24088 Jan 25 22:38 1999 seq/bin/sol/stTrkModeler.exe

5115 Mar 8 21:30 1999 seq/bin/start_auto_sequence
1234 Mar 8 21:30 1999 seq/bin/stop_auto_sequence
3035 Mar 9 15:32 1999 seq/bin/store_file
2394 Feb 12 17:04 1999 seq/bin/store_soe
159 Oct 26 16:21 1998 seq/bin/test_ping
778 Feb 12 19:27 1999 seq/bin/translate_cmd
42 May 19 16:28 1997 seq/bin/translate_file_name
30 Apr 30 22:56 1997 seq/bin/translate_name
180 Dec 15 00:27 1998 seq/bin/translate_opcode
591 Dec 15 15:46 1998 seq/bin/translate_opcode.awk
129 Feb 25 18:33 1999 seq/bin/trim_sc_id
221 Mar 8 21:34 1999 seq/bin/unlock
635 Nov 13 18:19 1998 seq/bin/update_in_progress_log
452 Nov 13 19:01 1998 seq/bin/update_queue_log
223 Dec 28 14:58 1998 seq/bin/update_request
834 Apr 30 22:57 1997 seq/bin/wrap
1743 Feb 26 00:02 1999 seq/bin/wrap_dmwf
1703 Sep 30 01:03 1998 seq/bin/wrap_memfil
1841 Aug 6 21:23 1998 seq/bin/wrap_sasf
2158 Feb 26 00:02 1999 seq/bin/wrap_symout
3800 Sep 30 01:05 1998 seq/bin/wrap_text
77 Jan 6 17:07 1999 seq/bin/write_to_block_log.awk
549 Mar 8 21:34 1999 seq/bin/write_to_log
847 Mar 8 21:34 1999 seq/bin/write_to_log.awk

64873 Oct 23 20:11 1998 seq/cdl/Lander_CDL_8.0.0
61963 Oct 23 20:11 1998 seq/cdl/Orbiter_CDL_8.1.0
60938 Jan 11 18:24 1999 seq/cdl/Stardust_cdl_4.0.1

80173 Aug 26 16:15 1996 seq/cmd_dictionary/appendixA.L1.3.tab
79565 Aug 26 16:15 1996 seq/cmd_dictionary/appendixB.L1.3.tab
36512 Aug 27 20:34 1996 seq/cmd_dictionary/appendixC.L1.3.tab
14070 May 6 18:24 1996 seq/cmd_dictionary/macro_dictionary.dat
80329 Aug 26 16:13 1996 seq/cmd_dictionary/mnemonics.L1.3.h

78070 Oct 23 20:51 1998 seq/cmdxlt/Lander_CDL_8.0.0.xlt
99430 Oct 23 20:48 1998 seq/cmdxlt/Orbiter_CDL_8.1.0.xlt

Directory Listing: D1.0.0-SEQ-000-SEQ.tar

03830 Jan 11 18:29 1999 seq/cmdxlt/Stardust_cdl_4.0.1.xlt
641 Nov 19 16:34 1996 seq/cvf/DefaultUplinkBitRate_116.cvf
642 Nov 19 16:34 1996 seq/cvf/DefaultUplinkBitRate_127.cvf
616 Mar 10 17:41 1997 seq/cvf/DefaultUplinkBitRate_29.cvf
637 Oct 14 15:47 1996 seq/cvf/DefaultUplinkBitRate_94.cvf
637 Feb 17 18:52 1999 seq/cvf/DefaultUplinkBitRate_95.cvf
23339 Mar 12 16:03 1999 seq/cvf/M98.lander.A24.cvf
19211 Nov 12 00:11 1998 seq/cvf/M98.orbiter.A19.cvf
15933 Jan 20 19:19 1999 seq/cvf/Stardust.A18.cvf
44499 Aug 4 20:42 1998 seq/cvf/mgs.M1.2.cvf
1183 Dec 5 17:57 1997 seq/cvf/msop.gvs.cvf
4653 Feb 25 19:47 1999 seq/cvf/msop.soe.cvf

15620 Nov 12 21:41 1998 seq/fmrf/M98.lander.A10.fmrf
9546 Oct 27 18:36 1998 seq/fmrf/M98.orbiter.A4.fmrf
9883 Mar 4 18:47 1999 seq/fmrf/Stardust.A5.fmrf
32209 Mar 10 23:46 1999 seq/fmrf/mgs.M1.0.fmrf

2348 Sep 16 15:22 1997 seq/legend/M98.lander.A1.legend
1507 Feb 4 18:08 1998 seq/legend/M98.orbiter.A1.legend
1384 Mar 10 23:27 1997 seq/legend/Stardust.A0.legend
1941 Jun 18 21:30 1998 seq/legend/mgs.M1.0.legend

45256 Sep 22 15:34 1998 seq/lib/sol/libpowerlib.so
79384 Mar 10 21:33 1999 seq/lib/sol/libudef.so
03248 Mar 8 22:30 1999 seq/lib/sol/libudsf.so

11561 Jan 25 15:49 1999 seq/local/cmd/tables/telecmd

12933 Mar 12 18:53 1999 seq/satf/M98.lander.B50.satf
3761 Oct 1 15:46 1998 seq/satf/M98.lander.nipc.1.0.satf
35419 Mar 12 17:41 1999 seq/satf/M98.orbiter.B48.satf
3763 Oct 1 15:07 1998 seq/satf/M98.orbiter.nipc.1.0.satf
66436 Mar 4 18:47 1999 seq/satf/Stardust.A35.satf
3723 Oct 2 15:36 1998 seq/satf/Stardust.nipc.1.0.satf
39639 Mar 10 23:46 1999 seq/satf/mgs.M1.17.satf
29589 Aug 28 19:07 1996 seq/satf/mgs.nipc.L1.1.satf

15175 Jul 9 20:37 1998 seq/seqtran/LIBIN.E1.7
39655 Jul 9 20:37 1998 seq/seqtran/MAPIN.E1.7
85024 Jan 19 18:02 1998 seq/seqtran/MIF.E1.7
14620 Nov 11 16:39 1998 seq/seqtran/SYMIN.MAP1.0

2625 Apr 15 22:20 1997 seq/setup/alloc_diag.fd
3503 Apr 15 22:20 1997 seq/setup/alloc.fd
21105 Feb 10 23:54 1999 seq/setup/apgen_convert.cfg
21091 Dec 11 17:11 1998 seq/setup/apgen_convert.cfg.12-11-98
19798 Dec 2 22:56 1998 seq/setup/apgen_convert.cfg.12-2
799 Dec 22 16:24 1998 seq/setup/apgen_sasf_out.fd
1227 Apr 15 22:20 1997 seq/setup/cfg.fd
1046 Apr 15 22:20 1997 seq/setup/light_diag.fd
1435 Oct 1 20:55 1997 seq/setup/light.fd
6301 Sep 30 17:07 1997 seq/setup/optg.fd
5835 Jan 20 16:39 1998 seq/setup/tol.fd
3020 Dec 2 17:40 1998 seq/setup/vue.fd

58897 Mar 12 17:33 1999 seq/smf/M98.lander.8.0.0h.smf
3744 Oct 1 15:44 1998 seq/smf/M98.lander.nipc.1.0.smf

Directory Listing: D1.0.0-SEQ-000-SEQ.tar

```
25019 Mar 12 17:37 1999 seq/smf/M98.orbiter.8.1.0g.smf
 3747 Oct  1 15:08 1998 seq/smf/M98.orbiter.nipc.1.0.smf
60270 Mar 12 17:37 1999 seq/smf/Stardust.4.0.1e.smf
 3719 Oct  1 22:56 1998 seq/smf/Stardust.nipc.1.0.smf
70409 Mar 12 17:34 1999 seq/smf/mgs.M1.27.smf
 1098 Aug 27 19:47 1996 seq/smf/mgs.nipc.L1.1.smf
```

Directory Listing: D1.0.0-SEQ-000-SOPC.tar

```
 555 Dec 21 16:38 1998 seq/aaf/constraints.aaf
70128 Mar 12 18:37 1999 seq/aaf/m98.3-12-99.aaf
 3095 Sep 30 16:30 1997 seq/aaf/optg.aaf
10786 Jan 20 18:07 1998 seq/aaf/vue.aaf

 679 Mar 12 21:37 1999 seq/bin/AcrobatDistiller
 202 Feb 11 00:35 1999 seq/bin/Acroexch
5641 Mar  8 23:40 1999 seq/bin/AutoSeqStatus
5735 Nov 13 19:26 1998 seq/bin/AutoSeqStatus.save
 411 Mar  8 20:58 1999 seq/bin/SCE_to_ERT
22464 Dec  4 01:02 1998 seq/bin/SeqgenV23_2
11867 Jan 26 23:35 1999 seq/bin/Seq_review
 5962 Dec  2 22:35 1998 seq/bin/StTrkModelerV4_2
 410 Mar  8 20:59 1999 seq/bin/TRM_to_SCE
 220 Mar  5 18:14 1999 seq/bin/adapt.log
1230 Feb 25 19:13 1998 seq/bin/add_activity
1087 Apr 28 16:00 1998 seq/bin/add_command
 831 Jul 31 22:12 1998 seq/bin/add_list_to_FIS
3157 Mar 10 19:57 1999 seq/bin/add_nipcec_to_pdb
 847 May  2 15:04 1997 seq/bin/add_request
 342 May 12 14:00 1997 seq/bin/add_to_queue_log
 273 Mar  8 20:59 1999 seq/bin/auto_sequence
1490 May  9 22:23 1997 seq/bin/bit_rate_cvf_gen
7340 Mar  8 21:00 1999 seq/bin/check_file_sfdu
2289 Sep 30 15:56 1998 seq/bin/check_sasf
1912 Feb 16 23:07 1999 seq/bin/chk_cmd_limit
 799 Mar  8 21:01 1999 seq/bin/clean_up
 594 Mar  8 21:01 1999 seq/bin/constrain_time
 422 Jul 28 14:22 1997 seq/bin/correct_conditions_file
 515 May 19 21:57 1998 seq/bin/correct_conditions_for_sasf
 703 Aug 18 15:58 1998 seq/bin/correct_transmitter_min_dur
 721 Aug 18 15:51 1998 seq/bin/correct_transmitter_min_dur_env.awk
1070 Aug 25 14:43 1998 seq/bin/create_keword_sasf
 356 May 21 18:36 1998 seq/bin/create_sasf
 360 Aug 25 14:24 1998 seq/bin/create_sasf_sct
 25 Feb 13 20:50 1997 seq/bin/crush
169 Apr 30 22:50 1997 seq/bin/curdate
147 Apr 30 22:51 1997 seq/bin/delete_mail
1638 Mar 10 20:33 1999 seq/bin/dom_interface
 305 Aug 22 14:01 1997 seq/bin/dsn.config.awk
13878 Mar  8 21:04 1999 seq/bin/env_gen
 741 Mar  8 21:04 1999 seq/bin/env_gen_update.awk
 68 Jan 19 16:56 1996 seq/bin/file_exists
16071 Mar  8 21:05 1999 seq/bin/file_load
 2648 Feb 12 17:03 1999 seq/bin/finish_dkf
 5772 Mar  8 21:07 1999 seq/bin/finish_soe
 3101 Mar 12 21:00 1999 seq/bin/finish_soe_dkf
 2119 Aug 28 01:07 1998 seq/bin/fix_ps_soe.pl
 1591 Sep 30 00:13 1998 seq/bin/format_dkf
 1629 Jul 21 16:12 1998 seq/bin/format_dkf.awk
 4803 Feb 12 17:04 1999 seq/bin/ftp_2homepage
11943 Mar 12 21:00 1999 seq/bin/ftp_dsn
 1470 Dec  3 18:59 1998 seq/bin/gen_blank_apf
14225 Mar  8 21:10 1999 seq/bin/gen_command
 337 Oct 14 16:04 1998 seq/bin/gen_command.script
 1513 Dec 28 14:59 1998 seq/bin/generate_and_update_sasf
 2430 Mar  8 21:11 1999 seq/bin/generate_mail_scanner
 1424 Aug 23 20:21 1998 seq/bin/gen_soe_dkf
```

Directory Listing: D1.0.0-SEQ-000-SOPC.tar

```
1319 Sep 30 00:15 1998 seq/bin/gen_txr_trigger
2717 Jul 24 14:57 1998 seq/bin/gen_txr_trigger.awk
134 Mar 1 17:39 1999 seq/bin/get_0_sclk
600 Jan 5 20:46 1999 seq/bin/get_aero_symin.awk
1283 Sep 30 00:18 1998 seq/bin/get_aero_symin_file
2440 Feb 17 17:57 1999 seq/bin/get_all_files
125 Mar 10 19:05 1999 seq/bin/get_arg
175 Mar 10 19:08 1999 seq/bin/get_arg.awk
161 Mar 8 21:11 1999 seq/bin/get_bin
5104 Mar 8 21:12 1999 seq/bin/get_cdb_file
1611 Sep 30 00:47 1998 seq/bin/get_cmd_info
259 Apr 30 22:52 1997 seq/bin/get_dotIdx
2171 Oct 11 05:48 1998 seq/bin/get_file
265 Oct 1 22:45 1997 seq/bin/get_file_from_pef
283 May 5 20:28 1997 seq/bin/get_file_from_ssf
2603 Mar 11 17:10 1999 seq/bin/get_files_by_time
1461 Oct 9 20:39 1998 seq/bin/get_files_from_frf
640 Feb 26 21:15 1999 seq/bin/get_files_from_frf.awk
103 Aug 5 20:03 1998 seq/bin/get_frViolation
643 Aug 5 20:03 1998 seq/bin/get_frViolation.awk
234 Sep 4 20:11 1998 seq/bin/get_input_conditions_file
286 Sep 4 20:08 1998 seq/bin/get_input_conditions_file.awk
110 Oct 27 21:07 1997 seq/bin/get_keyword_value
2592 Mar 8 21:12 1999 seq/bin/get_lighttime
905 Mar 8 21:13 1999 seq/bin/get_list_from_FIS
139 Apr 30 22:52 1997 seq/bin/get_missionIdx
274 Mar 8 21:13 1999 seq/bin/get_nipc_function
1122 Mar 8 21:14 1999 seq/bin/get_optgs
1848 Sep 30 00:51 1998 seq/bin/get_pdb_store_time
2442 Dec 28 14:59 1998 seq/bin/get_sasfs.awk
2848 Mar 8 21:15 1999 seq/bin/get_sc_info
1633 Aug 14 14:46 1998 seq/bin/get_seqtran_info
397 Dec 29 17:17 1998 seq/bin/get_sfdu_header
214 Sep 2 14:01 1998 seq/bin/get_sfdu_keyword
401 Apr 10 21:28 1996 seq/bin/get_state_changes
71 Jul 9 18:12 1997 seq/bin/get_total_load
260 Feb 12 19:22 1999 seq/bin/get_translated_data.awk
636 Mar 8 21:15 1999 seq/bin/get_updates
651 May 8 15:19 1997 seq/bin/get_urate_index
640 Feb 25 23:23 1999 seq/bin/jobcard_gen
3700 Mar 8 21:16 1999 seq/bin/lander_pass_thru
643 Oct 10 19:29 1997 seq/bin/lander.plan
468 Mar 8 21:16 1999 seq/bin/lock
1661 Mar 12 17:40 1999 seq/bin/mco-seq-adapt-setup
9123 Jan 19 16:56 1996 seq/bin/menuRes
778 Jan 19 16:56 1996 seq/bin/merge-err.keys
145 Jan 19 16:56 1996 seq/bin/merge_init_gen
1791 Mar 11 15:14 1999 seq/bin/mgs-seq-adapt-setup
1772 Mar 12 17:47 1999 seq/bin/mp1-seq-adapt-setup
2951 Mar 10 21:40 1999 seq/bin/msop-seq-setup
16959 Mar 8 21:18 1999 seq/bin/notify_act
8549 Dec 18 18:16 1998 seq/bin/notify_act_seq
543 Jun 6 15:17 1996 seq/bin/notify_act_seq_all
536 Mar 4 19:34 1999 seq/bin/notify_sie
7407 Mar 12 21:00 1999 seq/bin/notify_soe
97 Dec 15 15:33 1998 seq/bin/parse_gcmd_reverse
669 Dec 15 15:37 1998 seq/bin/parse_gcmd_reverse.awk
9123 Aug 26 14:47 1998 seq/bin/pdb_delete
```

Directory Listing: D1.0.0-SEQ-000-SOPC.tar

```
1151 Mar 10 19:55 1999 seq/bin/pdb_interface
8361 Mar 10 19:57 1999 seq/bin/pdb_store
9343 Mar  8 21:20 1999 seq/bin/pef_display
1493 Aug 27 23:31 1998 seq/bin/print.rsoe
3904 Jul 21 16:44 1998 seq/bin/print.rsoe.awk
 327 Mar  8 21:21 1999 seq/bin/process_fns_file
2196 Mar  8 21:21 1999 seq/bin/process_fns_file.awk
 155 Feb 17 17:58 1999 seq/bin/process_frfss
1948 Mar  8 21:22 1999 seq/bin/process_frfss.awk
1488 Mar  8 21:22 1999 seq/bin/process_mail_file
 516 Mar  8 21:22 1999 seq/bin/process_radiation.log
 30 Mar 11 19:36 1997 seq/bin/pushin
302 May  9 16:34 1997 seq/bin/record_status
235 Jun 30 18:06 1997 seq/bin/remove_req_from_fincon.awk
234 Apr  1 17:13 1998 seq/bin/replace
493 Aug 11 15:32 1997 seq/bin/replace.large
250 Oct  1 15:48 1998 seq/bin/resolve_cdb_file_name
347 Nov 18 17:32 1997 seq/bin/revcompare
3005 Mar  8 21:23 1999 seq/bin/revinit_gen
 869 Feb 11 17:23 1999 seq/bin/run.apgen
4042 Sep  9 14:49 1997 seq/bin/run.dsn.config
6702 Mar 10 19:57 1999 seq/bin/run_file_load
4076 Mar  8 21:25 1999 seq/bin/run_fns
 529 Mar  8 21:23 1999 seq/bin/run.gcmd_reverse
 689 Jun  1 15:07 1998 seq/bin/run.nipcec.merge
5106 Mar  8 21:23 1999 seq/bin/run.nipcec.sequence
 551 Mar 25 16:01 1996 seq/bin/run.pef_to_req
 265 May  6 16:55 1996 seq/bin/run.printscmf
324 Sep  4 16:39 1997 seq/bin/run.revcompare
327 Apr 30 22:47 1997 seq/bin/run.revtran
142 Apr 30 22:46 1997 seq/bin/run.revtran.nipcec
1113 Apr 30 22:47 1997 seq/bin/run rtc
11453 Mar  8 21:26 1999 seq/bin/run_sasf
 437 May  6 16:53 1996 seq/bin/run.seqadapt
1195 May  6 16:53 1996 seq/bin/run.seqgen
 755 Jul 21 17:30 1997 seq/bin/run.seqgen.nipcec
5332 Mar  8 21:25 1999 seq/bin/run.seqtran
4095 Feb 25 23:38 1999 seq/bin/run.seqtran.all
3227 Mar  4 16:29 1999 seq/bin/run.seqtran.nipcec
2304 Mar  9 15:33 1999 seq/bin/run.sequence
 596 Aug 23 20:19 1998 seq/bin/run_soe
114 Feb 24 21:15 1999 seq/bin/sclk_convert
 857 Feb 26 15:51 1999 seq/bin/sclk_convert.awk
1598 Mar 12 17:38 1999 seq/bin/sdu-seq-adapt-setup
8953 Mar  4 16:26 1999 seq/bin/send_frf
3367 Sep 30 00:59 1998 seq/bin/send_ic
 398 Jan 19 16:56 1996 seq/bin/send_mail
4755 Mar  8 23:45 1999 seq/bin/send_nipcec
 864 Mar  8 21:26 1999 seq/bin/send_rad
 874 Mar  4 19:34 1999 seq/bin/send_report
7194 Dec 20 15:31 1996 seq/bin/seqgen-err.keys
 864 Mar  8 21:27 1999 seq/bin/seq_id_gen
6658 Jan 19 17:00 1996 seq/bin/sfocsfdu

93020 Jun 12 19:58 1998 seq/bin/sol/add_time
50272 Dec 28 14:58 1998 seq/bin/sol/allCmds2Req
61664 Feb  3 19:36 1999 seq/bin/sol/apgen
07612 Dec  3 22:41 1998 seq/bin/sol/ascii_to_hex
```

Directory Listing: D1.0.0-SEQ-000-SOPC.tar

```
46052 Mar  8 21:38 1999 seq/bin/sol/auto_seq_status
92624 Jul 22 20:30 1997 seq/bin/sol/bsplit
95972 Jan  8 22:39 1999 seq/bin/sol/cdbg
55612 May  1 18:29 1997 seq/bin/sol/convert_data_words
69008 Jan 20 23:49 1999 seq/bin/sol/fgen
      25 May  9 16:57 1997 seq/bin/sol/findkeys
37568 Jan 29 22:57 1999 seq/bin/sol/gcmd_reverse
33612 Jan 15 21:55 1999 seq/bin/sol/litime
07828 Jun  1 15:07 1998 seq/bin/sol/merge
07336 Sep 12 23:09 1997 seq/bin/sol/mgso2jd
15832 May  1 20:40 1997 seq/bin/sol/mosort
97452 Jun  1 22:42 1998 seq/bin/sol/parse_cdb_file_list
40968 Feb 17 21:23 1999 seq/bin/sol/parse_gcmd_print
46000 Dec 28 14:58 1998 seq/bin/sol/pef_to_req
37284 Jun 27 14:56 1997 seq/bin/sol/printscmf
12252 Nov 18 16:35 1997 seq/bin/sol/revcompare_aux
02344 May 14 15:19 1997 seq/bin/sol/revdiff
50648 May  1 17:48 1997 seq/bin/sol/revtran
53828 Mar  5 18:29 1999 seq/bin/sol/seqgen
32996 Dec 28 18:19 1998 seq/bin/sol/seq_review
24088 Jan 25 22:38 1999 seq/bin/sol/stTrkModeler.exe

5115 Mar  8 21:30 1999 seq/bin/start_auto_sequence
1234 Mar  8 21:30 1999 seq/bin/stop_auto_sequence
3035 Mar  9 15:32 1999 seq/bin/store_file
2394 Feb 12 17:04 1999 seq/bin/store_soe
      159 Oct 26 16:21 1998 seq/bin/test_ping
      778 Feb 12 19:27 1999 seq/bin/translate_cmd
      42 May 19 16:28 1997 seq/bin/translate_file_name
      30 Apr 30 22:56 1997 seq/bin/translate_name
      180 Dec 15 00:27 1998 seq/bin/translate_opcode
      591 Dec 15 15:46 1998 seq/bin/translate_opcode.awk
      129 Feb 25 18:33 1999 seq/bin/trim_sc_id
      221 Mar  8 21:34 1999 seq/bin/unlock
      635 Nov 13 18:19 1998 seq/bin/update_in_progress_log
      452 Nov 13 19:01 1998 seq/bin/update_queue_log
      223 Dec 28 14:58 1998 seq/bin/update_request
      834 Apr 30 22:57 1997 seq/bin/wrap
      1743 Feb 26 00:02 1999 seq/bin/wrap_dmwf
      1703 Sep 30 01:03 1998 seq/bin/wrap_memfil
      1841 Aug  6 21:23 1998 seq/bin/wrap_sasf
      2158 Feb 26 00:02 1999 seq/bin/wrap_symout
      3800 Sep 30 01:05 1998 seq/bin/wrap_text
      77 Jan  6 17:07 1999 seq/bin/write_to_block_log.awk
      549 Mar  8 21:34 1999 seq/bin/write_to_log
      847 Mar  8 21:34 1999 seq/bin/write_to_log.awk

64873 Oct 23 20:11 1998 seq/cdl/Lander_CDL_8.0.0
61963 Oct 23 20:11 1998 seq/cdl/Orbiter_CDL_8.1.0
60938 Jan 11 18:24 1999 seq/cdl/Stardust_cdl_4.0.1

80173 Aug 26 16:15 1996 seq/cmd_dictionary/appendixA.L1.3.tab
79565 Aug 26 16:15 1996 seq/cmd_dictionary/appendixB.L1.3.tab
36512 Aug 27 20:34 1996 seq/cmd_dictionary/appendixC.L1.3.tab
14070 May  6 18:24 1996 seq/cmd_dictionary/macro_dictionary.dat
80329 Aug 26 16:13 1996 seq/cmd_dictionary/mnemonics.L1.3.h

      641 Nov 19 16:34 1996 seq/cvf/DefaultUplinkBitRate_116.csv
```

Directory Listing: D1.0.0-SEQ-000-SOPC.tar

```
642 Nov 19 16:34 1996 seq/cvf/DefaultUplinkBitRate_127.cvf
616 Mar 10 17:41 1997 seq/cvf/DefaultUplinkBitRate_29.cvf
637 Oct 14 15:47 1996 seq/cvf/DefaultUplinkBitRate_94.cvf
637 Feb 17 18:52 1999 seq/cvf/DefaultUplinkBitRate_95.cvf
23339 Mar 12 16:03 1999 seq/cvf/M98.lander.A24.cvf
19211 Nov 12 00:11 1998 seq/cvf/M98.orbiter.A19.cvf
15933 Jan 20 19:19 1999 seq/cvf/Stardust.A18.cvf
44499 Aug 4 20:42 1998 seq/cvf/mgs.M1.2.cvf
1183 Dec 5 17:57 1997 seq/cvf/msop.gvs.cvf
4653 Feb 25 19:47 1999 seq/cvf/msop.soe.cvf

15620 Nov 12 21:41 1998 seq/fmrf/M98.lander.A10.fmrf
9546 Oct 27 18:36 1998 seq/fmrf/M98.orbiter.A4.fmrf
9883 Mar 4 18:47 1999 seq/fmrf/Stardust.A5.fmrf
32209 Mar 10 23:46 1999 seq/fmrf/mgs.M1.0.fmrf

2348 Sep 16 15:22 1997 seq/legend/M98.lander.A1.legend
1507 Feb 4 18:08 1998 seq/legend/M98.orbiter.A1.legend
1384 Mar 10 23:27 1997 seq/legend/Stardust.A0.legend
1941 Jun 18 21:30 1998 seq/legend/mgs.M1.0.legend

45256 Sep 22 15:34 1998 seq/lib/sol/libpowerlib.so
79384 Mar 10 21:33 1999 seq/lib/sol/libudef.so
03248 Mar 8 22:30 1999 seq/lib/sol/libudsf.so

11561 Jan 25 15:49 1999 seq/local/cmd/tables/telecmd

12933 Mar 12 18:53 1999 seq/satf/M98.lander.B50.satf
3761 Oct 1 15:46 1998 seq/satf/M98.lander.nipc.1.0.satf
35419 Mar 12 17:41 1999 seq/satf/M98.orbiter.B48.satf
3763 Oct 1 15:07 1998 seq/satf/M98.orbiter.nipc.1.0.satf
66436 Mar 4 18:47 1999 seq/satf/Stardust.A35.satf
3723 Oct 2 15:36 1998 seq/satf/Stardust.nipc.1.0.satf
39639 Mar 10 23:46 1999 seq/satf/mgs.M1.17.satf
29589 Aug 28 19:07 1996 seq/satf/mgs.nipc.L1.1.satf

2625 Apr 15 22:20 1997 seq/setup/alloc_diag.fd
3503 Apr 15 22:20 1997 seq/setup/alloc.fd
21105 Feb 10 23:54 1999 seq/setup/apgen_convert.cfg
21091 Dec 11 17:11 1998 seq/setup/apgen_convert.cfg.12-11-98
19798 Dec 2 22:56 1998 seq/setup/apgen_convert.cfg.12-2
799 Dec 22 16:24 1998 seq/setup/apgen_sASF_out.fd
1227 Apr 15 22:20 1997 seq/setup/cfg.fd
1046 Apr 15 22:20 1997 seq/setup/light_diag.fd
1435 Oct 1 20:55 1997 seq/setup/light.fd
6301 Sep 30 17:07 1997 seq/setup/optg.fd
5835 Jan 20 16:39 1998 seq/setup/tol.fd
3020 Dec 2 17:40 1998 seq/setup/vue.fd

58897 Mar 12 17:33 1999 seq/smf/M98.lander.8.0.0h.smf
3744 Oct 1 15:44 1998 seq/smf/M98.lander.nipc.1.0.smf
25019 Mar 12 17:37 1999 seq/smf/M98.orbiter.8.1.0g.smf
3747 Oct 1 15:08 1998 seq/smf/M98.orbiter.nipc.1.0.smf
60270 Mar 12 17:37 1999 seq/smf/Stardust.4.0.1e.smf
3719 Oct 1 22:56 1998 seq/smf/Stardust.nipc.1.0.smf
70409 Mar 12 17:34 1999 seq/smf/mgs.M1.27.smf
1098 Aug 27 19:47 1996 seq/smf/mgs.nipc.L1.1.smf
```